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System for recovery from a virtual machine monitor failure with a continuous guest dispatched to a nonquest mode

T Inoue, H Umetsu, S Tanizaki, T Yamamoto, T ... - US Patent ... 1995 - Google Patents
... on a real or bare machine. The virtual machine storage may be destructed, resulting in stopping of the system is provided with a virtual machine monitor operation of the entire system. (VMM) for controlling the virtual machines ...

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ReVirt: Enabling intrusion analysis through virtual-machine logging and replay

GW Dunlap, ST King, S Cinar, RA Basrai, ... - ACM SIGOPS ... 2002 - portal.acm.org
... is identical or similar to the physical hardware (CPU, memory, disks, network card, monitor, keyboard, mouse ... can use this ability to run new guest commands to probe the virtual machine state. For exam- ple, the administrator can stop the replay after a suspi- cious point and use ...

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Terra: A virtual machine-based platform for trusted computing

T Garfinkel, S Pfaff, J Crow, M Rosenblum, ... - ACM SIGOPS ... 2003 - portal.acm.org
... Terra achieves this synthesis by use of a trusted virtual machine monitor (TVMM) that partitions a tamper-resistant hardware platform into multiple, isolated virtual machines (VM), providing the appearance of multiple boxes on a single, general-purpose platform. ...

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Live migration of virtual machines

C Clark, K Fraser, S Harel, JG Hansen, E Jul ... - Proceedings of the ... 2005 - portal.acm.org
... In particular the narrow interface be- tween a virtualized OS and the virtual machine monitor (VMM) makes it easy avoid ... are iteratively copied from the source machine to the destination host, all without ever stopping the execution of the virtual machine being migrated. ...

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[PDF] from psu.edu

Rethinking the design of virtual machine monitors

A Whitaker, RS Cox, M Shaw, SD Gribble - Computer, 2005 - ieeeexplore.ieee.org
... Services such as vir- tual machine replay8 and fault tolerance9 require precise timing information for nonde- terministic events such as timer interrupts. • Controlling virtual machines. Developers can use uDenali's programmatic API to start, stop, and kill virtual machines. ...

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A virtual machine time-sharing system

RA Meyer, LH Sawright - IBM Systems Journal, 1970 - portal.acm.org
... The user can stop his virtual machine at any time by depressing the ATTN key on his console and request dis- play of ... The Cambridge Monitor System is a single-user, conversational operating system, capable of running on a real machine as well as on a virtual machine. ...

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Virtual workspaces in the grid

K Keahney, I Foote, T Freeman, X Zhang, D ... - Euro-Par 2005 Parallel ... 2005 - Springer
... Software running on the host, called virtual machine monitor (VMM) or hypervisor, is responsible for supporting the perception of multiple isolated machines by intercepting and ... A VMM typically also provides an interface allowing a client to start, pause or stop multiple guests. ...

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[PDF] from psu.edu

Debugging operating systems with time-traveling virtual machines

ST King, GW Dunlap, PM Chen - Proceedings of the annual ... 2005 - portal.acm.org
... Why do computers stop and what can be done about it? ... 26. Jeremy Sugerman , Ganesh Venkitchalam , Beng-Hong Lim, Virtualizing I/O Devices on VMware Workstation's Hosted Virtual Machine Monitor. Proceedings of the General Track: 2002 USENIX Annual Technical ...

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Optimizing the migration of virtual computers

CP Siapatzakis, R Chandra, B Pfaff, J ... - ACM SIGOPS ... 2002 - portal.acm.org
... Both ballooning programs explicitly write some zeros to each allocated page so as to stop both OSes from map- ping the allocate pages to a single zero copy-on-write page. ... VMware Virtual Process Machine (one per capsule) Shim C-library Local RPC ...

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Fault tolerant computer system with shadow virtual processor

FS Schneider, B Lampson, E Baulow, D ... - US Patent ... 1996 - Google Patents
... computer 104 is reliably informed 20 whenever a hardware fault in the primary computer 102 causes that computer to stop working and ... 1). The copies of the buffered interrupts are delivered in the form of messages to the backup computer, and the virtual machine monitor in the ...

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